IN THE CLAIMS:

Please cancel claims 31, 32, 36, 37, 47-49 and 53 without prejudice or disclaimer to the pursuit of the subject matter thereof in a continuing application

Claims 22, 23, 27, 29, 35, 38, 40 and 50 have been amended herein. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1-21. (Canceled).
- 22. (Currently Amended) A sponge liner for use in a sponge core barrel assembly, the sponge core barrel assembly including an inner barrel assembly formed of a first material and having a bore extending therethrough, the sponge liner comprising:
- a tubular sleeve having a longitudinal axis, formed of a second material and having an outer, cylindrical surface sized and configured to be slidably disposed in the bore of the inner barrel assembly and an inner, substantially continuous cylindrical surface, the outer cylindrical surface and the inner, substantially continuous cylindrical surface being on opposing sides of a wall having a thickness, the tubular sleeve further including at least one groove formed in into an the substantially continuous inner cylindrical surface thereof and extending radially outwardly therebeyond into the thickness of the wall, the at least one groove having a cross-sectional shape; and
- an annular sponge layer formed of a material adapted to absorb at least one specified reservoir fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface secured to the inner, substantially continuous cylindrical surface of the tubular sleeve, a portion of the annular sponge layer extending radially beyond the outer cylindrical surface thereof into the at least one groove.

- 23. (Currently Amended) A sponge liner for use in a sponge core barrel assembly, the sponge core barrel assembly including an inner barrel assembly formed of a first material and having a bore extending therethrough, the sponge liner comprising:
- a tubular sleeve having a longitudinal axis, formed of a second material and having an outer cylindrical surface sized and configured to be slidably disposed in the bore of the inner barrel assembly and an inner cylindrical surface, the outer cylindrical surface and the inner cylindrical surface being on opposing sides of a wall having a thickness, the tubular sleeve further including at least one The sponge liner of claim 22, wherein the at least one groove comprises a groove configured in a helix about the inner cylindrical surface of the tubular sleeve or a groove-or extending circumferentially along the inner cylindrical surface of the tubular sleeve, formed in the inner cylindrical surface and extending into the thickness of the wall, the at least one groove having a cross-sectional shape; and
- an annular sponge layer formed of a material adapted to absorb at least one specified reservoir

 fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface

 secured to the inner cylindrical surface of the tubular sleeve, the annular sponge layer

 extending into the at least one groove.
- 24. (Previously Presented) The sponge liner of claim 22, wherein the cross-sectional shape of the at least one groove is a dove-tail shape.
- 25. (Previously Presented) The sponge liner of claim 22, wherein the second material comprises a material identical to the first material or a material exhibiting a rate of thermal expansion substantially equivalent to a rate of thermal expansion of the first material.
- 26. (Previously Presented) The sponge liner of claim 22, further comprising a plurality of perforations extending through the tubular sleeve.
- 27. (Currently Amended) A sponge liner for use in a sponge core barrel assembly, the sponge core barrel assembly including an inner barrel assembly formed of a first material and having a bore extending therethrough, the sponge liner comprising:

- a tubular sleeve having a longitudinal axis, formed of a second material and having an outer cylindrical surface sized and configured to be slidably disposed in the bore of the inner barrel assembly and an inner cylindrical surface, the outer cylindrical surface and the inner cylindrical surface being on opposing sides of a wall having a thickness, the tubular sleeve further including at least one groove formed in the inner cylindrical surface and extending into the thickness of the wall, the at least one groove having a cross-sectional shape; and
- an annular sponge layer formed of a material adapted to absorb at least one specified reservoir

 fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface
 secured to the inner cylindrical surface of the tubular sleeve, the annular sponge layer
 extending into the at least one groove; and
- The sponge liner of claim 22, further comprising a shaped contour extending in nonperpendicular relationship to the longitudinal axis of the tubular sleeve on at least one end of the sponge liner, the shaped contour configured to mate with a correspondingly shaped contour on an end of a second, adjacent sponge liner, wherein the shaped contour on the sponge liner and the correspondingly shaped contour on the second sponge liner are cooperatively configured to provide an interlocking end-to-end connection between the sponge liner and the second sponge liner.
- 28. (Previously Presented) The sponge liner of claim 27, wherein the shaped contour on the at least one end of the sponge liner and the correspondingly shaped contour on the end of the second sponge liner each comprise a bevel contour.
- 29. (Currently Amended) A sponge liner for use in a sponge core barrel assembly, the sponge core barrel assembly including an inner barrel assembly formed of a first material and having a bore extending therethrough, the sponge liner comprising:
- a tubular sleeve having a longitudinal axis, formed of a second material and having an outer cylindrical surface sized and configured to be slidably disposed in the bore of the inner barrel assembly and an inner cylindrical surface, the outer cylindrical surface and the inner cylindrical surface being on opposing sides of a wall having a thickness, the tubular

sleeve further including at least one groove formed in the inner cylindrical surface and extending into the thickness of the wall, the at least one groove having a cross-sectional shape;

an annular sponge layer formed of a material adapted to absorb at least one specified reservoir fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface secured to the inner cylindrical surface of the tubular sleeve, the annular sponge layer extending into the at least one groove; and

The sponge liner of claim 22, further comprising a longitudinally extending layer of webbing material disposed in the annular sponge layer.

- 30. (Previously Presented) The sponge liner of claim 29, wherein the longitudinally extending layer of webbing material is disposed in the annular sponge layer at a location proximate an interior surface thereof bounding the interior cavity.
 - 31. (Canceled)
 - 32. (Canceled)
- 33. (Previously Presented) A sponge liner for use in a sponge core barrel assembly, the sponge core barrel assembly including an inner barrel assembly having a bore extending therethrough, the sponge liner comprising:
- a longitudinally extending tubular sleeve having an inner cylindrical surface and an outer cylindrical surface sized and configured to be slidably disposed in the bore of the inner barrel assembly;
- an annular sponge layer formed of a material adapted to absorb at least one specified reservoir fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface secured to the inner cylindrical surface of the tubular sleeve; and
- a longitudinally extending layer of webbing material disposed in the annular sponge layer about at least a portion of a circumference of the annular sponge layer.

- 34. (Previously Presented) The sponge liner of claim 33, wherein the layer of webbing material is disposed in the annular sponge layer at a location proximate an interior surface thereof bounding the interior cavity.
- 35. (Currently Amended) An integrated sponge barrel for use in a sponge core barrel apparatus, comprising, prior to disposition of a core sample therein: at least one longitudinally extending inner tube section having an inner cylindrical surface; and an annular sponge layer constructed of a material adapted to absorb at least one specified reservoir fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface secured to the inner cylindrical surface of the at least one inner tube section; and
- at least one groove formed in the inner cylindrical surface and extending into a thickness of a
 wall of at least one inner tube section, the at least one groove having a cross-sectional
 shape, configured in a helix or extending circumferentially along the inner cylindrical
 surface of the at least one inner tube section, the annular sponge layer extending into the
 at least one groove about the inner cylindrical surface of the at least one inner tube
 section;

wherein the at least one <u>longitudinally extending</u> inner tube section is sized and configured for direct disposition in an outer barrel assembly without a surrounding inner barrel.

- 36. (Canceled)
- 37. (Canceled)
- 38. (Currently Amended) The integrated sponge barrel of claim 3635, wherein the cross-sectional shape of the at least one groove is a dove-tail shape.
- 39. (Previously Presented) The integrated sponge barrel of claim 35, further comprising a plurality of perforations extending through the at least one inner tube section.

- 40. (Currently Amended) An integrated sponge barrel for use in a sponge core barrel apparatus, comprising, prior to disposition of a core sample therein:

 at least one longitudinally extending inner tube section having an inner cylindrical surface; and an annular sponge layer constructed of a material adapted to absorb at least one specified reservoir fluid, the annular sponge layer including an interior cavity and an outer cylindrical surface secured to the inner cylindrical surface of the at least one inner tube section; and
- The integrated sponge barrel of claim 35, further comprising a longitudinally extending layer of webbing material disposed in the annular sponge layer;
- wherein the at least one longitudinally extending inner tube section is sized and configured for direct disposition in an outer barrel assembly without a surrounding inner barrel.
- 41. (Previously Presented) The integrated sponge barrel of claim 40, wherein the longitudinally extending layer of webbing material is disposed in the annular sponge layer at a location proximate an interior surface thereof bounding the interior cavity.
 - 42-49. (Canceled).
- 50. (Currently Amended) A method of reducing friction between a core sample and an interior wall of tubular tubular, longitudinally extending inner barrel of a core barrel assembly, at least a portion of the interior wall comprising a layer of sponge material adapted to absorb at least one specified reservoir fluid, the method comprising disposing a longitudinally extending layer of webbing material in the layer of sponge material.
- 51. (Previously Presented) The method of claim 50, further comprising disposing the longitudinally extending layer of webbing material in the layer of sponge material at a location proximate an interior surface thereof.

- 52. (Previously Presented) The sponge liner of claim 22, wherein the at least one groove comprises a groove extending longitudinally along the inner cylindrical surface of the tubular sleeve.
 - 53. (Canceled).